

S/PAT

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HIGH-IMPEDANCE SUBSTRATE

3/1/06 This application is a 371 of PCT/FR 04/50398 filed Aug. 30, 2004.
TECHNICAL FIELD

The invention relates to the field of high-
5 impedance substrates. Such substrates are, in
particular, applied in hyper frequency devices. The
invention finds application especially though not only
in telecommunications, for example in the frequency
band ranging from around 50 MHz to around 4 GHz for
10 creating antennae.

PRIOR ART

Patent application EP 1 195 847 A2 published in
April 2002 discloses different known embodiments of
15 high-impedance substrates in relation to the prior art
cited in said application.

Said application describes for example in relation
to Figures 9 and 10 an artificial magnetic conductor
900 constituting a high-impedance surface including:

20 a surface selective in frequency having a
permeability dependent on the frequency in a normal
direction to the surface selective in frequency

a conductive earth plane 806 parallel to the
surface selective in frequency and

25 a dielectric medium between the earth plane and
the surface selective in frequency in which conductive
metallic parts in the form of partitions perpendicular
to the earth plane link the surface selective in
frequency to the earth plane.